

Serial No. 10/721,246
Reply to Office Action of January 4, 2007

Docket No. K-0573

Amendments to the Specification:

Please replace paragraph [0029] with the following amended paragraph:

[0029] The housing 10 is designed to install to protect various equipments inside. A door 11 is installed at a front side of the housing 10 to open/close an entrance of the tub 20 and a user puts or pulls tableware in or out of the tub 20 via the entrance. A fan ~~11a~~(not shown) is installed at the door ~~11~~10a to blow air for drying the washed tableware.

Please replace paragraphs [0031] – [0032] with the following amended paragraphs:

[0031] The injector assembly 40 is constructed to inject water onto the tableware. Specifically, the injector assembly 40 includes a nozzle 41 installed in the tub 20, a sump 42 communicating with the nozzle 41, and a pump 43. The nozzle 41 is connected to the sump 42 by a connecting pipe 41a. Preferably, the nozzle 41 is rotatably installed in the tub 20 to evenly inject the water on the tableware. The sump 42 is installed under the tub 20, and preliminarily stores the water to supply to the nozzle 41 uniformly. And, the pump 43 is installed in the vicinity of the ~~sup- sump~~ 42, and pumps up the water in the sump 42 to the nozzle 41 for injection of the water.

[0032] Moreover, ~~a~~ water supply equipment ~~50~~ for supplying water to the sump 42 and a drain equipment ~~60~~ for discharging the used water are installed in the dishwasher. The water supply equipment ~~50~~ includes an inlet passage 51 and a valve assembly 100 installed at the inlet passage 51. The inlet passage 51 is connected to the sump 42 and extends to an ~~external~~external

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water supply source through the housing 10. The valve assembly 100 selectively opens or cuts off the inlet passage 51. Once the valve assembly 100 is turned on, the water is supplied to the sump 42 from the water supply source via the inlet passage 51. Moreover, the drain equipment 60 includes a drain passage 61 and a pump 62 communicating with the drain passage 61. Specifically, the drain passage 61 is connected to the sump 42, and extends outside the dishwasher via the pump 62. The water used in washing is stored in the sump 42 ~~gain~~ and is repeatedly injected onto the tableware by the injector assembly 40. After completion of washing, once the pump 62 is driven, the used water is discharged outside the dishwasher via the drain passage 61.

Please replace paragraphs [0038] – [0039] with the following amended paragraphs:

[0038] The second valve 130 is configured to close the passage in the case 110 if water leaks. Specifically, if a predetermined amount of water leaks on the base panel 11, the second valve ~~420~~ 130 substantially closes the neighboring outlet opening 112. The second valve 130, as shown in FIG. 4 to FIG. 5C, includes a diaphragm 131 and a pressing mechanism configured to press the diaphragm 131. The diaphragm 131 is installed at the passage in the vicinity of the outlet opening 112. Moreover, the pressing mechanism floats on the leaking water to press the diaphragm 131 to close the passage. Such a pressing mechanism is explained in detail as follows.

[0039] The pressing mechanism includes a float 132 configured to be floated by the leaking water and a plunger 133 configured to press the diaphragm 131 by the floated float 132. The plunger 133 enables to press the diaphragm 131 in various ways related to the floatage of the float 132. In the present invention, the plunger 133 is separated from the floated float 132 to press the diaphragm 131. Such a method is preferable because the configuration of the relating valve assembly is simplified. Moreover, the float 132 ascends or descends so that a relative distance between the float ~~131~~132 and the plunger 133 is variable. Hence, such a variable distance facilitates to control the separation of the plunger 133. For this, the pressing mechanism further includes a magnet 134 generating a magnetic field attracting the plunger 133. The magnet 134 is installed at the float ~~131~~132 in the vicinity of the plunger 133, whereas the plunger 133 is installed in the case 110 in the vicinity of the diaphragm 131 to be movable. Hence, if there is no leakage of water, the plunger 133 is attracted to the adjacent magnet 134 so as not to press the diaphragm 131. On the other hand, once the magnet 134 is separated by the floatage of the float 132, the plunger 133 is separated from the magnet 134 to press the adjacent diaphragm 131. Hence, the magnet 134 separates the plunger 133 according to the distance from the plunger 133.

Please replace paragraph [0042] with the following amended paragraph:

[0042] The extension member includes a rod 132b installed at the body 132a and an arm 132c extending from the rod 132b. The magnet 134 is installed at the extension member to be in

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the vicinity of the plunger 133. First of all, the rod 132b extends vertically from a center of the body 132a. The rod 132b, as well shown in FIG. 4, is installed to penetrate a first holder 114a provided in the case 110, thereby being guided by the first holder 114a on moving upward and downward. The first holder 114a substantially has a hole of which diameter is greater than that of the rod 132b so as to be penetrated by the rod 132b. The arm 132c extends to the plunger 133 from the rod 132b and is then bent to be adjacent to the plunger 133. The magnet 134 is substantially installed at the arm 132c of the extension member. A second holder 114b is installed on a top of the case 110 and includes a hole in which the bent portion of the arm 132c is inserted. An opening 114c is formed at a side of the second holder 114b, and the bent portion is easily loaded in or unloaded from the second holder 114b via the opening 114c. The bent portion is guided by the second holder ~~114b~~ 114b, whereby the float 132 as well as the arm 132c enables to stably move upward and downward overall.